Republic of the Philippines
MARINDUQUE STATE COLLEGE
COLLEGE OF INFORMATION AND COMPUTING SCIENCES
Panfilo M. Manguera Sr. Rd., Tanza, Boac, Marinduque
SICS Tel. No.: (042) 704-0193 SICS E-mail Address: sics.msc@gmail.com
Website: www.mscmarinduque.edu.ph

Courses Offered:
**Boac Campus:**
BS Information Technology
BS Information Systems
(AACCUP, Inc. Reaccredited Level 3)
**Santa Cruz Campus:**
BS Information Systems
(AACCUP, Inc. Reaccredited Level 2)

# Capstone Project Title Approval Form

**Group Code: [SD-3E1]**
**Proponents**

**Project Leader:** June Charles Mariquit

**Group Members:**
Daniela Marquez
Rubylyn Rey
Jayron Sadian

**Proposed Capstone Project Title**

*[PlantCare: Automatic Watering System for Plantita]*

**Name and Contact No. or Target Organization**

Smart home system

**Platform**

IoT device/Mobile Application

**Background of the Organization/Firm/Target Pilot Area**

[Smart home solutions, such as the PlantCare: Automatic Watering System, are made using revolutionary IoT technology and user-friendly features to make plant care for "plantita" easier.]

**Problem Statement**

| *Problems* | *Causes* | *Solutions (As a Feature of your System* |
|---|---|---|
| A lot of people these days, especially those who love plants, call themselves "plantitas," find it hard to remember to water them on a regular basis and in a timely manner due to their busy schedules and many duties. Current solutions don't address the unique problems brought on by work-related distractions and forgetfulness, which puts plantitas in a constant state of stress as they try to maintain and create thriving indoor and outdoor green spaces while juggling their love of plants with the practical demands of their careers. | Plantita frequently struggle to maintain optimal plant health, in part due to a lack of time and automatic solutions catered to their special circumstances as busy professionals or forgetful people. | Create a mobile application that is easy to use so that plantitas can remotely monitor and operate the irrigation system. Even when people are away from home, this feature guarantees plant care and offers flexibility. PlantCare can provide a complete and focused on users' solution that promotes effective and sustainable plant care methods while addressing the issues of hectic work schedules and forgetfulness. |
| | | |
| | | |
| | | |

**Objectives**

[A user-friendly automatic irrigation system that makes sure plants get the proper amount of water at the right time is one of the project's main goals in making plant care easier;]

## *Specific Objectives*

1. [To detect the moisture content of the soil precisely, include a dependable soil moisture sensor. Manages monitoring of submission and checking of examination;
2. Allow customers to alter watering schedules according to the particular requirements of their plants;
3. Implement functions that maximize water use and avoid overwatering; and
4. To notify users about system status, possible problems, or maintenance requirements, implement alerts or notifications.]

## Specific Functions and Features

1. [Real-time monitoring of soil moisture adjustment;
2. Customizable Watering Schedules;
3. Plant Information; and
4. Alerts and Notifications.]

## Significance and Possible Users

- Plantita - The proposed system will be beneficial to the plantita who are adept at using technology and look for smart home solutions to improve their routines for caring for their plants.

## Level of Feasibility

- The proposed project is feasible because growing interest for automated plant care systems such as PlantCare, especially among the "plantita" community. The increasing popularity of both indoor and outdoor gardening can be met by an automatic watering system, which will provide effective plant care. The success of PlantCare will depend on how simple and easy it is to set up. The increasing popularity of both indoor and outdoor gardening can be met by an automatic watering system, which will provide effective plant care.

## For Review Committee Only

**Comments:**

| Status: | |
|---|---|
| ☐ For Revision<br>☐ Approved<br>☐ Disapproved | _____<br>Signature Over Printed Name |

**Note:** You may attach the results of your survey and feasibility analysis, if needed.